

In the claims:

Following is a complete set of claims as amended with this Response.

1. -29. (Cancelled)

30. (Previously Presented) A method comprising:

receiving a service record at a first radio device from a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

sending a connection request from the first radio device to the second radio device, the connection request including the service name to indicate the appropriate service; and

connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

31. (Cancelled)

32. (Previously Presented) The method of Claim 30, wherein receiving a service record comprises receiving a service record from an advertising device.

33. (Previously Presented) The method of Claim 30, further comprising sending a query and wherein receiving a service record comprises receiving a service record in response to the query.

34. (Previously Presented) The method of Claim 33, wherein the query is sent utilizing a Bluetooth protocol SDP request and wherein the service record is received in the form of an SDP response.

35. (Canceled)

36. (Canceled)

37. (Previously Presented) The method of Claim 36, further comprising connecting to a second service for which a radio device service record exists in the database utilizing the service name of the second service to initiate the connection.

38. (Previously Presented) An apparatus comprising:

means for receiving a service record at a first radio device from a second radio device, through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device; , and a virtual communications port associated with the service record;

means for maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

means for sending a connection request from the first radio device to the second radio device, the connection request including the service name to indicate the appropriate service; and

means for connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

39. (Previously Presented) The apparatus of Claim 38, further comprising means for sending a query and wherein the means for receiving a service record receives the service record in response to the query.

40. (Previously Presented) The apparatus of Claim 39, wherein:

the means for sending a query utilizes a Bluetooth protocol SDP request as the query; and

the means for receiving a service record is configured to receive a Bluetooth protocol SDP response.

41. (Previously Presented) A radio device comprising:

a processor;

a control hub coupled to the processor; and

an I/O interface coupled to the control hub;

wherein the processor, control hub, and I/O interface are collectively configured

to:

receive a service record at the first radio device from a second radio device, through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

maintain a database of radio device service records containing a service name and an associated virtual communications port for each service record;

send a connection request to the second radio device, the connection request including the service name to indicate the appropriate service; and connect to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

42. (Previously Presented) The device of Claim 41, wherein the I/O interface includes a Bluetooth interface.

43. (Previously Presented) The system of Claim 41, wherein the processor, control hub, and I/O interface are, further configured to connect to each service for which a record exists in a set of received service records.

44. (Previously Presented) A machine-readable medium embodying instructions, the instructions, when executed by a processor, causing the processor to perform a method, the method comprising:

receiving a service record at a first radio device from a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

sending a connection request from the first radio device to the second radio device, the connection request including the service name to indicate the appropriate service; and

connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

45. (Currently Amended) The machine-readable medium of Claim 44-Claim 45, further embodying instructions, the instructions, when executed by the processor, further causing the processor to perform sending a query and wherein receiving a service record comprises receiving a service record in response to the query.

46. (Previously Presented) The machine-readable medium of Claim 44 Claim 45, further embodying instructions, the instructions, when executed by the processor, further causing the processor to perform:

connecting to a second service for which a record exists in the set of service name records utilizing the service name of the second service to initiate connection.

47. (Previously Presented) A method comprising:

sending a service record to a first radio device from a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

receiving a connection request from the first radio device at the second radio device, the connection request including the service name to indicate the appropriate service; and

connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

48. (Cancelled)

49. (Currently Amended) The method of Claim 47 Claim 48, further comprising receiving a query, and wherein sending a service record comprises sending a service record in response to the query.

50. (Currently Amended) The method of Claim 49 Claim 50, wherein the query is received as a Bluetooth protocol SDP request and the service record is sent as an SDP response.

51. (Previously Presented) An apparatus comprising:

means for sending a service record to a first radio device from a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

means for maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

means for receiving a connection request from the first radio device at the second radio device, the connection request including the service name to indicate the appropriate service; and

means for connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

52. (Currently Amended) The apparatus of Claim 51 ~~Claim 52~~, further comprising:

means for connecting a first service of the available services to the first radio device based on the service name received from the first radio device.

53. (Previously Presented) A radio device comprising:

a processor;

a control hub coupled to the processor; and

an I/O interface coupled to the control hub;

wherein the processor, control hub, and I/O interface are collectively configured

to:

send a service record to a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the first radio device;

maintain a database of radio device service records containing a service name and an associated virtual communications port for each service record;

receive a connection request from the second radio device, the connection request including the service name to indicate the appropriate service; and

connect to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

54. (Currently Amended) The device of Claim 53 ~~Claim 54~~, wherein the processor, control hub, and I/O interface are, further configured to connect a service of the available services to the second radio device based on the received service name.

55. (Previously Presented) An article comprising a machine-readable medium embodying instructions, the instructions, when executed by a processor, causing the processor to perform a method, the method comprising:

sending a service record to a first radio device from a second radio device through a virtual communications port, the service record including a service record handle to identify the service record, a service name to identify a service of the second radio device, and a virtual communications port associated with the service record;

maintaining a database of radio device service records containing a service name and an associated virtual communications port for each service record;

receiving a connection request from the first radio device at the second radio device, the connection request including the service name to indicate the appropriate service; and

connecting to a first service for which a radio device service record exists in the database utilizing the service name of the first service to initiate the connection.

56. (Currently Amended) The article machine-readable medium of Claim 55 Claim 56, further embodying instructions, the instructions, when executed by a processor, further causing the processor to perform connecting a service to the second radio device based on the service name supplied by the second radio device.

57. (Currently Amended) The article machine-readable medium of Claim 55 Claim 56, further embodying instructions, the instructions, when executed by a processor, further causing the processor to perform sending a virtual communications port with the service record, and wherein the connection request does not include the associated virtual communications port.

58. (Previously Presented) The method of Claim 30, wherein sending a connection request comprises sending the connection request without including an indication of the virtual communications port through which the service record was received.

59. (Previously Presented) The apparatus of Claim 38, wherein the means for sending a connection request comprises means for sending the connection request without including an indication of the virtual communications port through which the service record was received.

60. (Previously Presented) The device of Claim 41, wherein the connection request is sent without including an indication of the virtual communications port through which the service record was received.

61. (Currently Amended) The machine readable medium of Claim 44 Claim 45, wherein sending a connection request comprises sending the connection request without including an indication of the virtual communications port through which the service record was received.